

[Document Name] Abstract

The present invention provides a method for producing a catalyst for polymerization of an olefin, which suppresses a decrease in polymerization activity due to early deactivation of the active site after the catalyst has been formed, exhibits excellent catalyst activity at the time of polymerization of olefins, and can produce polymers of olefins, which are excellent in stereoregularity. The method for producing a catalyst for polymerization of an olefin includes contacting a solid catalyst component (A) containing magnesium, titanium, halogen and an internal electron-donating compound, and a specific organoaluminum compound (B) represented by the general formula (I), with each other, wherein at least one selected from the solid catalyst component (A) and the organoaluminum compound (B) is previously subjected to contact treatment with a hydrocarbon compound having one or more vinyl groups.